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1 Self-healing BPEL processes with Dynamo and the JBoss rule engine

Luciano Baresi, Sam Guinea, Liliana Pasquale
September 2007 ESSPE '07: International workshop on Engineering of software services for pervasive
          environments: in conjunction with the 6th ESEC/FSE joint meeting
Publisher: ACM

Full text available: 📄 pdf(571.67 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 31,   Downloads (12 Months): 211,   Citation Count: 0

Many emerging domains such as ambient intelligence, context-aware applications, and pervasive
computing are embracing the assumption that their software applications will be deployed in an
open-world. By adopting the Service Oriented Architecture paradigm, ...

2 Allowing user-specified failure handling in web services composition

Yuna Kim, Jong Kim
January 2008 ICUIMC '08: Proceedings of the 2nd international conference on Ubiquitous information
          management and communication
Publisher: ACM

Full text available: 📄 pdf(177.12 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 28,   Downloads (12 Months): 65,   Citation Count: 0

Recently, the advent of Web services gets rid of the troubles in cooperating with other systems
regardless of their underlying platforms. Web services can be composed dynamically on demand and
possibly produce value-added services which are mesmerizing ...

Keywords: business process, user-specified failure handling, web services composition

3 An environment for flexible advanced compensations of Web service transactions

Michael Schäfer, Peter Dolog, Wolfgang Nejdl
April 2008   ACM Transactions on the Web (TWEB),   Volume 2 Issue 2
Publisher: ACM

Full text available: 📄 pdf(640.01 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 142,   Downloads (12 Months): 142,   Citation Count: 0

Business to business integration has recently been performed by employing Web service
environments. Moreover, such environments are being provided by major players on the technology
markets. Those environments are based on open specifications for transaction ...

Keywords: Web services, compensations, forward-recovery, transactions

4 Decentralized orchestration of composite web services

Girish B. Chafle, Sunil Chandra, Vijay Mann, Mangala Gowri Nanda
May 2004   WWW Alt. '04: Proceedings of the 13th international World Wide Web conference on
            Alternate track papers & posters
Publisher: ACM
Full text available: pdf(166.96 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 206, Citation Count: 9

Web services make information and software available programmatically via the Internet and may
be used as building blocks for applications. A composite web service is one that is built using
multiple component web services and is typically specified ...

Keywords: BPEL4WS, code partitioning, composite web services, decentralized orchestration

5   Recovery guarantees for Internet applications
Roger Barga, David Lomet, German Shegalov, Gerhard Weikum
August 2004 ACM Transactions on Internet Technology (TOIT),   Volume 4 Issue 3
Publisher: ACM
Full text available: pdf(997.52 KB)   Additional Information: full citation, abstract, references, cited by, index terms,
                                                                       review

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 241, Citation Count: 3

Internet-based e-services require application developers to deal explicitly with failures of the
underlying software components, for example web servers, servlets, browser sessions, and so forth.
This complicates application programming, and may expose ...

Keywords: Exactly-once execution, application recovery, communication protocols, interaction
contracts

6   A dynamic and reactive approach to the supervision of BPEL processes
Luciano Baresi, Sam Guinea
February 2008 ISEC '08: Proceedings of the 1st conference on India software engineering conference
Publisher: ACM
Full text available: pdf(384.06 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 97, Citation Count: 0

The distributed nature of BPEL processes, the absence of a single stakeholder, the fact that partner
services can dynamically change their functionality and/or QoS, and the fact we can define abstract
processes and look for actual services at run-time, ...

Keywords: BPEL, aspect oriented programming, monitoring, recovery, supervision, web services

7   A platform to support decentralized and dynamically distributed P2P composite OWL-S service
    execution
Thorsten Möller, Heiko Schuldt
November 2007 MW4SOC '07: Proceedings of the 2nd workshop on Middleware for service oriented
               computing: held at the ACM/IFIP/USENIX International Middleware Conference
Publisher: ACM
Full text available: pdf(639.74 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

In a large variety of applications, it is increasingly important to provide application functionality in a
modular way by means of (Web) services. At the same time, pre-defined applications are no longer
suitable to cope with the high functional dynamics ...

Keywords: OWL-S, P2P, process management, semantic service

8   Documentum ECI self-repairing wrappers: performance analysis

Boris Chidlovskii, Bruno Roustant, Marc Brette
June 2006   SIGMOD '06: Proceedings of the 2006 ACM SIGMOD international conference on
           Management of data
Publisher: ACM
Full text available: pdf(291.42 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 83, Citation Count: 0

Documentum Enterprise Content Integration (ECI) services is a content integration middleware that
provides one-query access to the Intranet and Internet content resources. The ECI Adapter
technology offers an interface to any application for data and ...

Keywords: content integration, web wrappers, wrapper maintenance

9 Towards a unified framework for the monitoring and recovery of BPEL processes
Luciano Baresi, Sam Guinea, Liliana Pasquale
July 2008   TAV-WEB '08: Proceedings of the 2008 workshop on Testing, analysis, and verification of
           web services and applications
Publisher: ACM
Full text available: pdf(1.26 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

Web services have proven to be a viable solution for interoperability issues. Since end users do not
buy services, but only interact with them remotely, such complex systems end up having a
distributed ownership, meaning different parts of a system can ...

Keywords: BPEL, monitoring, quality of service, recovery, web services

10 Grid infrastructure monitoring system based on Nagios
Emir Imamagic, Dobrisa Dobrenic
June 2007   GMW '07: Proceedings of the 2007 workshop on Grid monitoring
Publisher: ACM
Full text available: pdf(409.64 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 397, Citation Count: 0

Monitoring in distributed environment such as a grid is crucial for normal operation of all
subsystems. Constant gathering of information enables efficient security auditing, failure detection,
maintenance, job scheduling, accounting, resource performance ...

Keywords: automatic recovery, failure detection, grid monitoring architecture, network monitoring

11 Advanced fault analysis in web service composition
L. Ardissono, L. Console, A. Goy, G. Petrone, C. Picardi, M. Segnan, D. Theseider Dupré
May 2005   WWW '05: Special interest tracks and posters of the 14th international conference on
           World Wide Web
Publisher: ACM
Full text available: pdf(37.64 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 49, Citation Count: 0

Currently, fault management in Web Services orchestrating multiple suppliers relies on a local
analysis, that does not span across individual services, thus limiting the effectiveness of recovery
strategies. We propose to address this limitation by employing ...

Keywords: diagnosis, fault management, web service composition

12 Decentralized coordination of transactional processes in peer-to-peer environments
Klaus Haller, Heiko Schuldt, Can Türker
October 2005 CIKM '05: Proceedings of the 14th ACM international conference on Information and

knowledge management
Publisher: ACM
Full text available: pdf(369.47 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 80, Citation Count: 3

Business processes executing in peer-to-peer environments usually invoke Web services on different, independent peers. Although peer-to-peer environments inherently lack global control, some business processes nevertheless require global transactional ...

Keywords: DSGT, decentralized coordination, global correctness, partial rollback, peer-to-peer communication, transactional processes

13 Technology enablers to recover from failures in e-services
Neal G. Shaw, Christopher W. Craighead
June 2003   Communications of the ACM,   Volume 46 Issue 6
Publisher: ACM
Full text available: pdf(69.97 KB) html(8.77 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 91, Citation Count: 1

Although the goal of e-providers should be to provide quality service to all customers at all times, occasional failure is inevitable. Whether the failure is inherent in the content of the e-service (for example, a service that does not meet the expectations ...

14 Tutorial: towards dynamic web services
Luciano Baresi, Sam Guinea
May 2006   ICSE '06: Proceedings of the 28th international conference on Software engineering
Publisher: ACM
Full text available: pdf(80.19 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 114, Citation Count: 0

This tutorial introduces *dynamic web services* as a solution to cope with the dynamism and flexibility required by many modern software systems. Current technologies (WSDL, WS-BPEL, etc.) have proven insufficient in addressing these issues; however, ...

15 Testing of java web services for robustness
Chen Fu, Barbara G. Ryder, Ana Milanova, David Wonnacott
July 2004   ACM SIGSOFT Software Engineering Notes,   Volume 29 Issue 4
Publisher: ACM
Full text available: pdf(264.32 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 129, Citation Count: 3

This paper presents a new compile-time analysis that enables a testing methodology for white-box coverage testing of error recovery code (i.e., exception handlers) in Java web services using compiler-directed fault injection. The analysis allows compiler-generated ...

Keywords: def-use testing, exceptions, java, test coverage metrics

16 Testing of java web services for robustness
Chen Fu, Barbara G. Ryder, Ana Milanova, David Wonnacott
July 2004   ISSTA '04: Proceedings of the 2004 ACM SIGSOFT international symposium on Software testing and analysis
Publisher: ACM
Full text available: pdf(264.32 KB)   Additional Information: full citation, abstract, references, cited by, index terms

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Keywords: def-use testing, exceptions, java, test coverage metrics

17 Quantifying and Improving the Availability of High-Performance Cluster-Based Internet Services

Kiran Nagaraja, Neeraj Krishnan, Ricardo Bianchini, Richard P. Martin, Thu D. Nguyen
November 2003 SC '03: Proceedings of the 2003 ACM/IEEE conference on Supercomputing
Publisher: IEEE Computer Society
Full text available: pdf(306.01 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 73, Citation Count: 0

Cluster-based servers can substantially increase performance when nodes cooperate to globally manage resources. However, in this paper we show that cooperation results in a substantial availability loss, in the absence of high-availability mechanisms. ...

18 A component model for internet-scale applications

Steven P. Reiss
November 2005 ASE '05: Proceedings of the 20th IEEE/ACM international Conference on Automated software engineering
Publisher: ACM
Full text available: pdf(143.47 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 84, Citation Count: 0

This paper describes a component model where the overall semantics of a component is included in the interface definition. Such a model is necessary for future computing where programs will run at Internet-scales and will employ a combination of web ...

Keywords: component models, interface semantics, internet-scale applications

19 Realizing fault resilience in Web-server cluster

Chu-Sing Yang, Mon-Yen Luo
November 2000 Supercomputing '00: Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)
Publisher: IEEE Computer Society
Full text available: pdf(223.68 KB) Publisher Site   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 19, Citation Count: 3

Today, a successful Internet service is absolutely critical to be up 100 percent of the time. Server clustering is the most promising approach to meet this requirement. However, the existing Web server-clustering solutions merely can provide high availability ...

20 Towards a business continuity information network for rapid disaster recovery

Khalid Saleem, Steven Luis, Yi Deng, Shu-Ching Chen, Vagelis Hristidis, Tao Li
May 2008   dg.o '08: Proceedings of the 2008 international conference on Digital government research
Publisher: Digital Government Society of North America
Full text available: pdf(1.65 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 48, Downloads (12 Months): 48, Citation Count: 0

Crisis Management and Disaster Recovery have gained immense importance in the wake of recent man and nature inflicted calamities such as the terrorist attacks of September 11th 2001 and hurricanes/earthquakes i.e. Katrina (2005), Wilma (2005) ...

Keywords: business continuity systems, crisis management, disaster recovery support

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